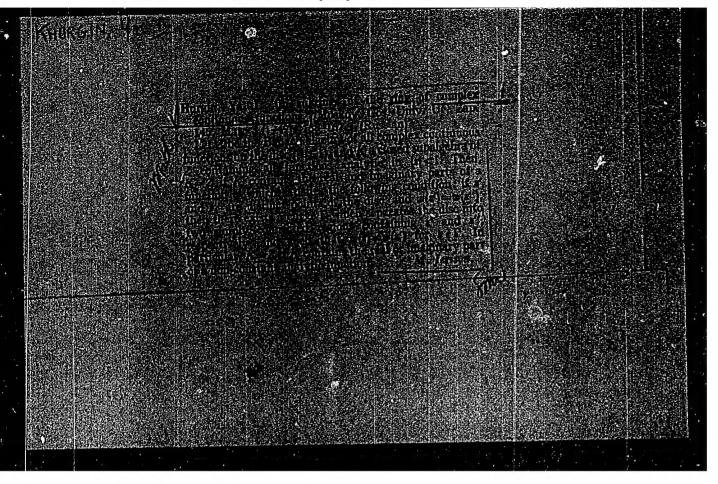
"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000722420013-0



Spectra and analysis. A. A. Kharkevich, Reviewed by IA. I. Khurgin, Usp.mat.nauk. 10 no.1:239-242 '55 (MEMA 8:6) (Spectrum analysis)(Mathematical physics)

KHURGIN, YA. I.

AUTHOR: Khurgin, Ya.I.

109-4-1/20

(Ob odnom klasse A Class of Random Pulse Processes.

impulsnykh sluchaynykh protsessov) TITLE:

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.2, No.4, pp. 371 - 379 (USSR)

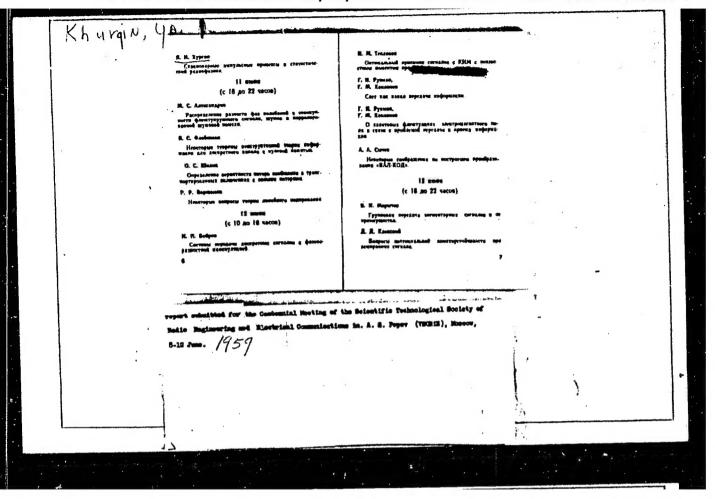
The class of processes considered in the paper is a train of identical pulses, whose leading edges appear at random. It ABSTRACT: is assumed that the average spacing between the pulses is T and that the train is in the steady state, i.e. it commenced at the time $t=-\infty$. Intervals between the leading edges of neighbouring pulses are governed by a probability density distribution function p(t) p(t) = 0 at t = 0, such that the tribution of the appearance of the leading edge of a successive instant of the appearance of the leading edge of a successive pulse is dependent only on the instant of the appearance of a preceding pulse. A quantity g(t2/t1) is introduced such that g(t2/t1)dt2 is the conditional probability of the appearance of a pulse in an interval t2, t2 + dt2, if the preceding pulse commenced at time t_1 ; $g(t_2/t_1)$ is referred to as the conditional probability density of the pulse train (or series). It is shown that the relationship between p(t) and $g(t_2 = t/t_1 = 0) = g(t/0) = g_0(t)$ is given by:

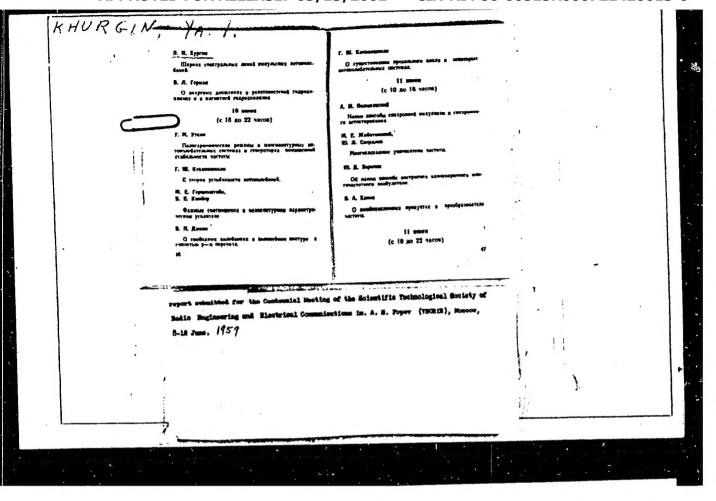
Card 1/5

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Spectrum of random pulse processes with independent intervals and spectrum line width. Nauch.dokl.vys.shkoly; radiotekh. i elektron.no.1:96-101 '58. (NIRA 12:1)

1. Kafedra radiofisiki Moskovskogo fiziko-tekhnicheskogo instituta. (Oscillations) (Probabilities)





32887

16.7000

6.9000

s/044/61/000/012/043/054 C111/C222

AUTHUR:

Khurgin, Ya. I.

TITLE:

Some properties of random impulse processes

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 12, 1961, 32, abstract 12V192. ("Tr. Vses. seveshchaniya po teorii vercyatnostey i matem. statistike, 1958". Yerevan, AN Arm SSR, 1960, 72-78)

The importance of random impulse processes for various questions in radio technics is pointed out. Of particular interest in examining such processes are the statistical characteristics of the behavior along the time axis: the characteristics of the pulsescheme, the intervals between times of impulse appearances, the

probabilities of the impulse appering in cartain intervals, etc. It is suggested to consider random impulse processes in which the form of all impulses are derived from a given function h(t) by a transformation

with random parameters, e. g.

 $h_k(t) = \xi_k h\left(\frac{t-\theta_k}{\tau_k}\right)$ where ξ_k is the amplitude of the k-th impulse, τ_k is

Card 1/2

3288?

s/044/61/000/012/043/054 C111/C222

Some properties of random impulse . . . C111/C222

the length and θ_k is the time of its appearance. The author further

examines the case where the times of the impulse appearance form a flow with limited after-effects, the probability-theoretical characteristics of which can easily be reduced to integral equations.

Abstracter's note: Complete translation.

Card 2/2

EHURGIN, Ya.I., doktor fiz.-mat.nauk

Information and coding. Mauka 1 zhizn' 27 no.12:24-30 I '60.

(MIRA 13:12)

(Information theory)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000722420013-0"

KHURGIN, Yakov Isayevich; YAKOVIEV, Vitaliy Pavlovich; KOZLOV, V.D., red.; LIKHACHEVA, L.V., tekhn.red.

[Methods of the theory of entire functions in radio physics, communication theory, and optics] Metody teorii tselykh funktsii v radiofizike, teorii sviazi i optike. Moskva, Gos. izd-vo fiziko-matem.lit-ry, 1962. 220 p. (MIRA 15:5) (Functions, Entire)

DOBRUSZYN, R.L. [Dobrushin, R.L.]; CHURGIN, J.I. [Khurgin, Ya I.]
(Moskwa)

Problems of the information theory. Rocz wiad matem 6 no.2:205-216 63.

AP4016506 ACCESSION NR:

S/0020/64/154/005/1082/1083

Guberman, Sh. A.; Izvekova, M.L.; Kholin, A.I.; Khurgin, AUTHORS:

Ya. L.

The use of an algorithmic method of discerning shapes in TITLE:

the solution of problems in production-connected geophysics

Doklady*, v. 154, no. 5, 1964, 1082-1083 AN SSSR. SOURCE:

TOPIC TAGS: exploratory well, mineral, geophysical method, rock strata, electric resistance, cybernetics, petroleum, gas, algorithm, porosity, porosity classification, physical property, oil satura-tion, sandstone, limestone

The investigation of exploratory wells by geophysical methods includes such operations as rock crushing on the basic of lithological differences, the classification of mineral-bearing rock strata and the correlation of such strata on the basic of geophysical data for the purpose of solving geological and production programs. It is very useful, in this connection, to make use

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ACCESSION NR: AP4016506

of cybernetics for the purpose of discerning various shapes under ground. This can be done by feeding the parameters of a number of different rock samples into a machine that will automatically separate, compare and classify them and identify the new types of materials. Such classification will include, for example, clay, sandstone, limestone; oil-, gas- and water-saturated rock; the various rock strata will also be classified on the basis of porosity and other physical properties. The algorithmic method of identification can be used not only for the qualitative solution of problems but also for the classification of rock strata on a quantitative basis, such as percentages of porosity, etc. "M.G. Latyshev and Ye. A. Neyman took an active part in the discussion of a number of questions raised in this article."

ASSOCIATION: Moskovskiy institut nertekhimicheskoy i gazovoy promyshlennosti imeni I. M. Gubkina) Moscow Institute of Petroleum

Chemistry and Gas Industry)

SUBMITTED: 02Sep63

SUB CODE: CH

DATE ACQ: 12Mar64 NO REF SOV: 000 ENCL: 00 OTHER: 000

Card 2/2

YAKHNIN, S.Z.; LAMEA, K.D.; KHURGIN, Ye.A., redaktor; KISLENKOVA, A.V., redaktor.

[Plastic materials and their use in railroad engineering]
Plasticheskie massy i ikh primenenie na zheleznodorozhnom
transporte. Moskva, Gos. transp. zhel-dor. izd-vo, 1954.
147 p. (MLRA 7:12)

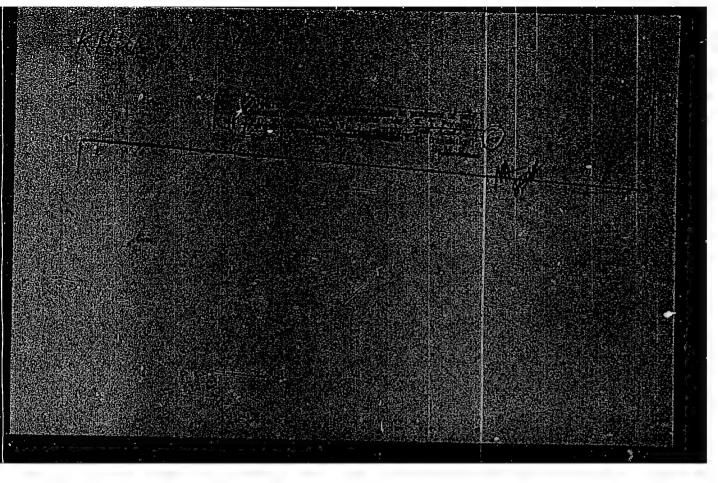
(Plastics) (Railroads--Equipment and supplies)

KHURGIN, Yu.D.; DMITRIEVA, M.G.

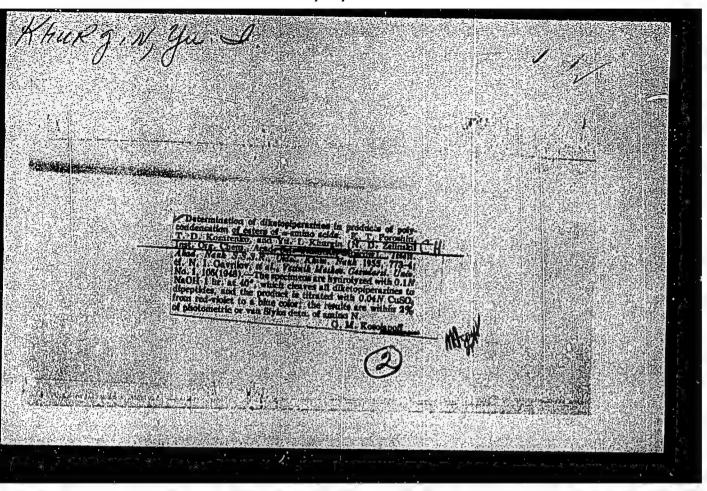
Relative rates of peptide bond formation by the aminolysis of p-nitrophenyl esters. Coll Cz Chem 27 nc.9:2235-2236 S 162.

1. Institute of Organic Chemistry, Academy of Sciences of the U.S.S.R., Moscow.

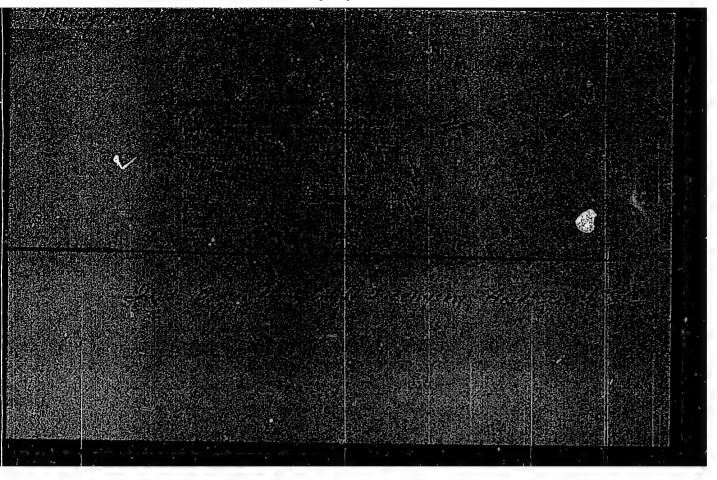
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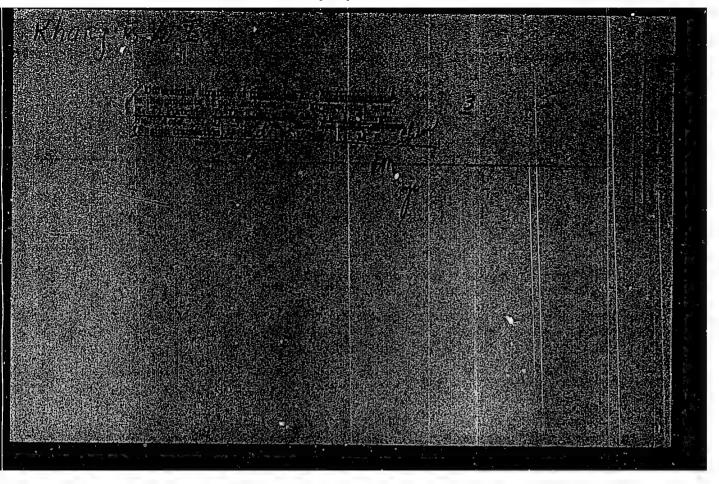


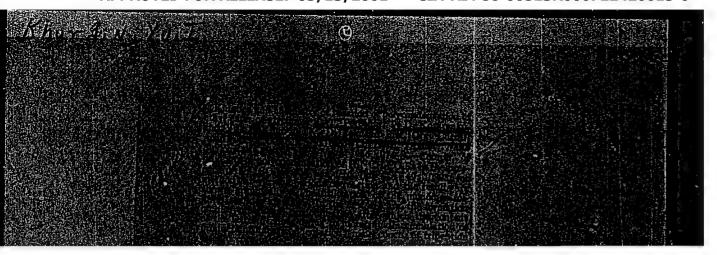
POROSHIN, K.T.; KOZARENKO, T.D.; KHURGIN, Yu.I.

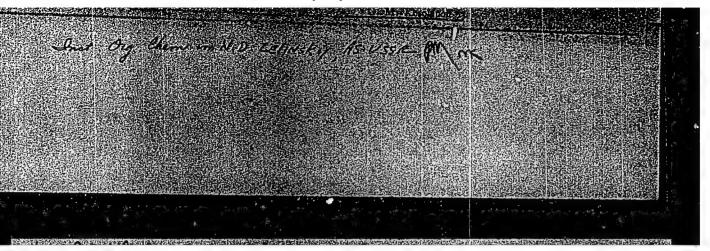
Differential titration of tripeptides and diketopiperazines in the products of polycondensation of the ethyl ester of glycine. Izv. AN SSSR.Otd.khim.nauk no.5:626-628 My '56. (MIRA 9:9)

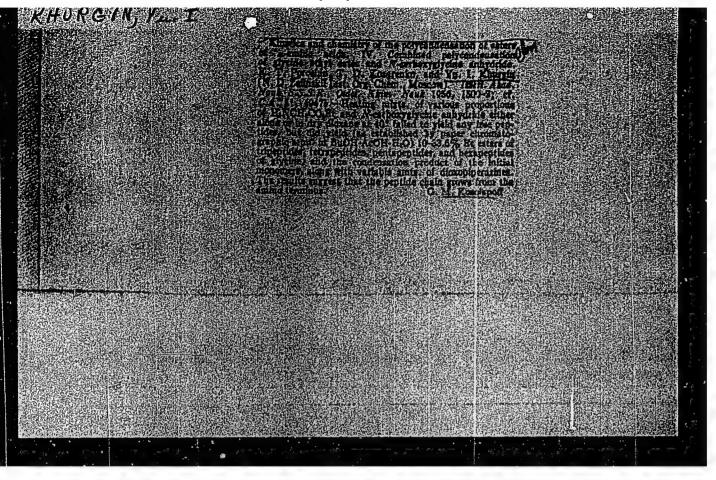
1.Institut organicheskoy khimii imeni N.D.Zelinskogo Akademii nauk SSSR. (Titration) (Glycine) (Condensation products (Chemistry))

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000722420013-0









KH, RGIN, UP I.

USSR/Organic Chemistry. Natural Substances and Their E-3 Synthetic Analogues.

Ref Zhur- Khimiya, No. 8, 1957, 27003. Abs Jour:

Poroshin, K.T., Kozarenko, T.D., Khurgin, Yu. I. Author

Academy of Sciences of USSR. - Inch Ong Chemian Zeinsking Inst Title Mutual Conversions of Dipeptides and Their

Anhydrides.

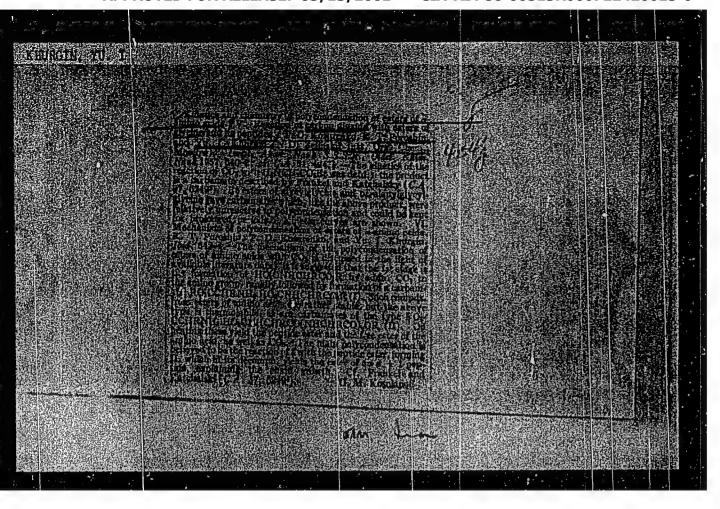
Dokl. AN SSSR, 1956, 109, No. 2, 329 - 331. Orig Pub:

Abstract: The stability of glycylglycine diketopiperazine (I) and alanylalanine diketopiperazine

(II) in alkaline medium was studied. The hydrolysis constants for I and II, equal to pK 10.8 and 12.0 correspondingly, were computed from the measurements of hydrolysis depths of I and II at various pH in alkaline medium and 40°. The

Card 1/2

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000722420013-0



KHURGIN, Yn.I.; POROSHIN, K.T.; KOZARENKO, T.D.

Kinetics and polycondensation mechanism of esters of Ci-amino acids. Report No.2. Kinetics of polycondensation of glycine ethyl ester. Isv.AN SSSR. Otd.khim. nauk no.2:174-178 F '57.

(NIRA 10:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR.

(Glycine) (Condensation products (Chemistry))

Khurgin, Yu. I.

USSR/Physical Chemistry - Kinetics, Combustion, Explosions, Topochemistry Catalisis.

B--9

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3858

Author : T.D. Kozarenko, K.T. Poroshin, Yu. I. Khurgin.

Inst : Academy of Sciences of USSR, Section of Chemical Sciences. Title : Kinetics and Chemism of Polycondensation

: Kinetics and Chemism of Polycondensation of A-Aminoacid Esters. 3. Influence of Carbon Dioxide on Composition of

Polycondensation Products of Glycine Ethyl Ester.

Orig Pub: Izv. AN SSSR, Otd. Khim. n., 1957, No 5, 563-568.

Abstract: The composition of polycondensation products of glycine ethyl ester was studied at various ratios of the initial molar ${\rm CO_2}$ concentrations and the monomer. The reaction product was analyzed after the monomer removal. The reaction product was treated with diethyl ester and was a thick mass containing a mixture of peptide ethyl esters. The obtained kinetic curves permit to establish 2, differing by speed, phases in the poly-

Card : 1/3

-9a

+ Inol. Organico Chemo in Zelinskiy

HHURGIE, U.I., Cand Chem Sci-(diss) "Pelycondens tion of athyl other of plycine." Fes, 1950. Il pp (lend Sci UDSR. Inst of Greenic Chemistry in E.D. Zelinshiy), 310 copies (FL,22-58,103)

The state of the s

5(4), 5(3)

AUTHORS:

SOV/62-58-12-5/22 Poroshin, K. T., Khurgin, Yu. I., Prokhorova, N. I.

TITLE:

Kinetics and Chemism of the Polycondensation of α-Amino Acid Esters (Kinetika i khimizm polikondensatsii efirov α-aminokislot) Communication 7: Kinetics of the Change in Composition of Polycondensation Products of Glycine Ethyl Ester in the Presence of N-Carboxy Glycine Anhydride (Soobshcheniye 7. Kinetika izmeneniya sostava produktov polikondensatsii etilovogo efira glitsina v prisutstvii angidrida N-karboksiglitsina)

PERIODICAL:

Izvestlya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 12, pp 1428-1434 (USSR)

ABSTRACT:

In the present paper the results of investigations of the kinetics of a joint polycondensation of α -amino acid esters and N-carboxy- α -amino acid anhydride were shown by the example of glycine derivatives as well as of the effect of the relative anhydride concentration (A/I) on the composition of reaction products. The majority of the experiments was carried out with a 5% solution of the initial products in dioxane. It was found that with the content of initial products changing from 0.5 to 10% the amount of the solvent does not exercise any

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Kinetics and Chemism of the Polycondensation of α -Amino Acid Esters. Communication 7: Kinetics of the Change in Composition of Polycondensation Products of Glycine Ethyl Ester in the Presence of N-Carboxy Glycine Anhydride

essential effect on the course of the reaction. The qualitative composition of the polycondensation products was chromatographically investigated. The content of tetra and tripeptide fraction, and of diketo piperazine (Ref 20) was determined by the method of differential titration. The average degree of the polycondensation was determined by measuring the amino nitrogen according to the Van-Slyayk method. At the same time, experiments without solvents were carried out (in the block). In this case all processes developed more rapidly, they did, however, not show any qualitative differences. A comparison between the results obtained and those of the investigation of the polycondensation of glycine ethyl ester in the presence of carbon dioxide (Ref 19) shows that the rules governing this process are basically the same in the course of either process. However, intermediate products in the first polycondensation stage show differences: by the addition of CO2 a symmetrical carbamate R'OOC.CHR.NH; OOC.NH.CHR.COCR' is formed; by the initiating of N-carboxy amino acid anhydride an asymmetric

Card 2/3

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722420013-0

Kinetics and Chemism of the Polycondensation of α -Amino Acid Esters. 507/62-58-12-5/22 Communication 7: Kinetics of the Change in Composition of Polycondensation Products of Glycine Ethyl Ester in the Presence of N-Carboxy Glycine Anhydride

carbamate is formed R'OOC.CHR.NH; OOC.NH.CHR.CO.NH.CHR.COOR'.

This apparently explains the observed differences in the velocity of the course of the process as well as in the distribution of reaction products in the individual stages.

There are 4 figures and 21 references, 5 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii imeni N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy

Academy of Sciences USSR)

SUBMITTED:

February 26, 1957

Card 3/3

AUTHORS:

Kaverzneva, Ye. L., Doctor of Chemical

907/30-58-9-4 2/51

Sciences, Khurgin, Yu. I.

TITLE:

Biologically Active Polymer Compounds (Biologicheski aktivnyye polimery) All-Union Conference on Highly Molecular Compounds (Vsesoyuznaya konferentsiya po vysokomolekulyarnym soyedine-

Vestnik Akademii nauk SSSR, 1958 Nr 9. pp. 111 - 113 (USSR)

ABSTRACT:

PERIODICAL:

The X All Union Conference took place in Moscow from June 11th to 13th. About 400 representatives of scientific institutions and colleges took part. In his opening-speech V.A. Kargin stressed the fact that, as there are structural analogies between natural and synthetic polymer compounds the task is set to bring about a controlled synthesis of

models of biological objects. Further reports were delivered by: B.N. Tarusov, A.G. Pasynskiy on some peculiarities of biological

G.M.Frank on the submicroscopic structure of some cell textures

and muscle fibrils.

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K.G. Ioffe gave particulars on the location of 18 amino-acids

Biologically Active Polymer Compounds. All Union Conference on Highly Molecular Compounds.

SOV/30-58-9-42/51

in the tyrosine bearing peptide. M.I.Plekhan on some peculiarities concerning peptides. Ye.D.Kaverzneva, F.V.Shmakova on the extraction of carbohydrate bearing peptide from egg albumin and the determination of its amino-acid content. S.Ye.Bresler, S.Ya.Frenkel' consider the configuration of the individual globular protein to be metastable. V.A.Belitser recommends to distinguish denaturation from some other slight modifications of structure. V.I.Kasatochkin, R.A.Dulitskaya examined kinetics and thermodynamics of renaturation under pressure. M.B. Kalmakarova on the modification of structure of complex proteins. D.N.Shigorin, N.V.Mikhaylov examined the typical bands in infrared adsorption spectra. N.S. Andreyeva recommended a new classification of the kinds of polypeptide chains according to structure. M.I.Millionova, N.S.Andreyeva constructed a model of polymer glycyl-L-proline.

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Biologically Active Polyner Compounds. All Union Conference on Highly Molecular Compounds.

507/30-58-9-42/51

A.L.Zaydes on characteristics of various collagens. Yu.A. Vladimirov, S.V. Konev on the mechanism of energy migration of light quanta in protein. M.S. Volkova, A.G. Pasynskiy made use of the radiation method for molecular weight determination of protein. G.V. Samsonov, R.B. Ponomareva, L.V. Dmitrenko gave particulars on the chromatographic purity determination of protein. A.N.Belozerskiy spoke about the composition of nucleinic acids secreted by micro-organisms and plants. V.S.Diskina, V.S.Tongur, D.M.Spitkovskiy spoke about the production of desoxy nucleoproteids by means of serum albumin and α -Chymotrypsin. S. Ye. Bresler, Kh. M. Rubina on the part played by ribonucleic acid in the fermentative biosynthesis of protein. M.A. Prokof'yev and Z.A. Shabarova mention experimentally obtained data on the synthesis of derivatives of amino acids with nucleotides and nucleosides.

Card 3/4

Biologically Active Polymer Compounds. All Union Conference on Highly Molecular Compounds.

SOV/30-58-9-42/51

A.S. Spirin and L.P. Gavrilova reported on the results of investigations of ribonucleic acid of the tobacco mosaic virus. P.S. Vasil'yev spoke about the protein structures which are necessary for blood-transfusion. M.F. Shostakovskiy about how polyvinylpyrrolydone is obtained and how it is used as blood substitute. M.G. Brazhnikova dealt with the investigation of a large group of antibiotics of polypeptide type. The members of the conference stressed the necessity of the establishment of a special institute for protein research. It was recommended to promote the training of teams in the corresponding fields of science.

Card 4/4

POROSHIN, K.T.; PROKHOROVA, N.I.; KHURGIN, Yu.I.

Kinetics and mechanism of the polycondensation of & -amino acid esters and peptides. Part 10: Constitution of the products of interaction between the ethyl ester of & . & -alanine and N-carboxy- & . & -alanine anhydride. Vysokom. soed. 1 no.6:907-912 Je 159. (MIRA 12:10)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. (Alanine)

5(3)

AUTHORS:

Khurgin, Yu. I., Poroshin, K. T., Kozarenko, T. D.

TITLE:

The Kinetics of the Polycondensation of Glycine-ethyl Esters in the Presence of Its Carbamate (Kinetika polikondensatsii etilovogo efira glitsina v prisutstvii yego karbamata)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 5, pp 941-943 (USSR)

ABSTRACT: In the course of previous investigations of the kinetics of the polycondensation of esters of the α-amino acids it has been shown that the initiating effect of carbon dioxide is connected with the formation of the symmetric carbamate:

R'OOC.CHR.NH; OOC.NH.CHR.COOR'. Carbamate formation is an endothermic reaction, and therefore overheating of the reaction mass may easily occur if CO2 is added at an increased rate. The

carbamate itself causes no thermal impediment to polycondensation. In this connection, the kinetics of the consumption of monomers and the variation of the composition of the polycondensed glycine-ethyl ester obtained in the presence of a carbamate was investigated in the present case. The investi-

Card 1/3

The Kinetics of the Polycondensation of Glycine-ethyl Esters in the Presence of Its Carbamate

gation methods are the same as those of reference 1. The content of free monomers, the reaction product yield, and their diketopiperazine and amino nitrogen content was determined. Figures 1 and 2 show the velocity constant of the consumption of monomers and, accordingly, the concentration of the diketopiperazines in the polycondensation products when carbamate and CO, are used as initiators. From the difference alone between the consumption of monomers conclusions are drawn as to a difference in the kinetics of the aggregation of the diketopiperazines. From figure 2, which shows the concentration of diketopiperazines in the final products, a distinct difference in the two initiators may be recognized, especially at the beginning of the reaction. The difference is caused by heating the reaction mass by the endothermal formation of carbamate when using the CO2-initiator. When carbamate is used as initiator, the reaction product yield remains proportional to the time of reaction, and also the amino nitrogen (NH2-N) content in the reaction products remains constant. The authors thank Ye. V. Lecnova for her assistance.

Card 2/3

507/62-59-5-34/40

The Kinetics of the Polycondensation of Glycine-ethyl Esters in the Presence of Its Carbamate

The activation energy of the affiliation of the monomer to the peptide was determined. There are 2 figures and 5 references, 4 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of

the Academy of Sciences, USSR)

SUBMITTED:

October 28, 1958

Card 3/3

5(3) AUTHORS:

Khurgin, Yu.I., Kozarenko, T.D., Poroshin, K.T.

SOV/62-59-7-26/38

TITLE:

The Kinetics and Chemicm of the Polycondensation of the Esters of & -Amino Acids (Kinetika i khimizm polikonden-

satsii efirov@c-aminokislot)

VIII. The Influence of the Initial Content of Carbamate on the Velocity of the Polycondensation of the Ethyl-Ester

of Glycine. (Scobshaheniye 3. Vliyaniye nachal'nogo soderzhaniya karbamata na skorost'polikondensatsii etilovogo efira glitsina)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1959, Nr 7 pp 1328 - 1332 (USSR)

ABSTRACT:

Introducing the well-known mechanism of polycondensation of the esters of α -amino acids under the influence of simple initiators- in this case CO2- and the formation of initiator substrate is described briefly (Refs 1-4). It had

been shown, that the original initiator for the polycondensation is not CO2, but the symmetric carbamate as the

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arising substrate. If this is true, it must be the same for

The Kinetics and the Chemism of the Polycondensation SOV/62-59-7-26/38 of the Esters of &-Amino Acids. VIII. The Influence of the Initial Content of Carbamate on the Velocity of the Polycondensation of the Ethyl-Ester of Clycine

the velocity of polycondensation, no matter whether carbamate is formed by the addition of CO₂ or is added directly. Moreover, for a small amount of i/m - i/m is the relative, molar initial concentration of the initiator i, related to the monomer m - the consumption of the monomer must be proportional to the initial amount of carbamate. In the investigation of kinetics it had been shown that this proper tionality was maintained for all initial concentrations,. The consumption of monomer may be represented by the following equation:

$$m(t) = (1 - 2 f_0)e^{-k(f_0)t}$$

In this paper the above named assumption is investigated. The dependence of the velocity of monomer consumption on the initial concentration of the initiator was investigated. The content of free monomers in the reaction product was

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The Kinetics and Chemism of the Polycondensation SOV/62-59-7-26/38 of the Esters of Gy Amino Acids. VIII. The Influence of the Initial Content of Carbamate on the Velocity of the Polycondensation of the Ethyl-Ester of Glycine

determined by means of the improvement method. Moreover, the consumption of monomers was investigated with immediate initiation with symmetric carbamate. The experimental data for the consumption of monomers with initial concentrations of initiator CO_2 for 0.01, 0.02, 0.04, 0.08 and 0.16 are demonstrated in a semi-logarithmic scale in figure 1. For all i/m monomer's consumption is first class. The extrapolation of the straight line cuts the ordinate in the point $lgm = 0 (m = 1) = m^0$. m^0 is reduced with increasing f_0 . Therefore m^0 is the exact initial concentration for the secondary stage of the reaction. In the equation obtained from the experiment:

$$m(t) = m^0 \cdot e^{-kt}$$

Card 3/5 mo and k were calculated by the method of the least squares.

 The Kinetics and Chemism of the Polycondensation 50V/62-59-7-26/38 of the Esters of & - Amino Acids. VIII. The Influence of the Initial Content of Carbamate on the Velocity of the Polycondensation of the Ethyl-Ester of Glycine

The results are listed in Table 1. 1 - m was calculated as the stoichiometrical coefficient of the reciprocal effect of the monomer with CO₂ in the primary stage of reaction. In this case of carbamate initiation m was found to be 0.995 i.e. it was equal to the initial amount of the monomer. This result may serve as evidence that carbamate is formed in the first stage of the reaction. The constants of velocity of monomer consumption in dependence on the initial concentrations of carbamate i/m are listed in table 2. The kinetic curve (Fig 2) is a straight line up to concentrations i/m = 0.07. Moreover the velocity of monomer consumption was proved to be independent of the length of the formed chain of polymers. There are 2 figures, 2 tables, and 7 references, 5 of which are Soviet.

Card 4/5

The Kinetics and Chemism of the Polycondensation SOV/62-59-7-26/38 of the Esters of GV- Amino Acids. VIII. The Influence of the Initial Content of Carbamate on the Velocity of the Polycondensation of the Ethyl-Ester of Glycine

ASSOCIATION: Institut organicheskoy khimii im. N.D. Zelinskogo Akademii

nauk SSSR

(Institute of Organic Chemistry imeni N.D. Zelinskiy of

the Academy of Sciences, USSR)

SUBMITTED: November 30, 1957

Card 5/5

5(3), 5(4) AUTHORS: Poroshin, K. T., Khurgin, Yu. I., Kozarenko, T. D.

SOV/62-59-8-18/42

TITLE:

Kinetics and Chemism of the Polycondensation of Esters of the a-Amino Acids and Peptides. Communication 9. On the Autocatalytic Nature of the Polycondensation of the Ethylester

of Glycine in the Presence of Carbon Dioxide

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 8, pp 1453-1457 (USSR)

ABSTRACT:

In the present paper the assumption concerning the autocatalytic nature of the polycondensation reaction of the esters of a-amino acids in the presence of CO, is investigated. For this purpose the yield of the polycondensation products of ethylglycine ester was measured and their composition determined. The condensation product was fractionated and the products of the solid phase determined by weighing. It consisted of ethyl esters of glycine peptides of various lengths, and diketopiperazine. Several test series with different CO, con-

tents in the initial products were carried out. From the yields obtained it could be seen that the polycondensation of ethylglycine ester is an autocatalytic process with a

Card 1/2

gradual growth of the peptide chain. The growth of the peptide

SOV/62-59-8-18/42

Kinetics and Chemism of the Polycondensation of Esters of the α -Amino Acids and Peptides. Communication 9. On the Autocatalytic Nature of the Polycondensation of the Ethylester of Glycine in the Presence of Carbon Dioxide

chain is more rapid than the formation of new chains. Thus two stages could be observed: formation of new chains and growth of the chains. There are 4 figures, 2 tables, and 5 Soviet references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR

(Institute of Organic Chemistry imeni N. D. Zelinskiy of

the Academy of Sciences, USSR)

SUBMITTED: December 10, 1957

Card 2/2

5(3)

AUTHORS:

Poroshin, K. T., Khurgin, Yu. I., Kozarenko, T. D.

SOV/20-124-1-29/69

TITLE:

Polycondensation of Glycine Ethyl Ester in the Presence of Its Carbamate (Polikondensatsiya etilovogo efira glitsina

v prisutstvii yego karbamata)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 1,

pp 105 - 106 (USSR)

ABSTRACT:

The carbamate formation represents the first stage of the reaction mentioned in the title of the α -amino acids in the presence of CO₂ (Ref 1). It proceeds practically instantly (Ref 2) as compared with the other stages. It was earlier proved (Ref 3) that the course of the polycondensation is determined by the relative initial concentration of the initiator (in this case the carbanate). Although the $\alpha\text{-amino}$ acid esters as well as their carbamates are rather stable, they are subjected to polycondensation on CO₂ addition. Thus, carbamate and not CO₂ is the real initiator. Thus, polycondensation must occur also on adding carbamate to the mono-

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meric ester. The rate of the polycondensation and the com-

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722420013-0

Polycondensation of Glycine Ethyl Ester in the Presence of Its Carbamate

SOY/20-124-1-29/69

position of the resulting products will be independent of the way of introducing the initiator. The purpose of the present paper is to check the assumption that the carbamates actually initiate the polycondensation of the a-amino acid esters in the presence of CO2. As can be seen from the data on the monomer consumption (Fig 1) the reaction initiated by carbamate is of first order, viz. it proceeds in the same way as on initiation by CO2. It was earlier proved that the rate of the monomer consumption rises with an increase in the initial concentration of the initiator (Ref 3). In the reaction initiated by carbamate the first stage of the rapid consumption of the initiator is missing. This rapid stage, however, occurs in the initiation by CO2 (Fig 1) . The chromatographic investigation of the polycondensate proved that the quantitative composition of the reaction products is independent of the way of formation of the initial reaction mixture. There are 1 figure and 7 references, 4 of which are Soviet.

Card 2/3

Polycondensation of Glycine Ethyl Ester in the Presence of Its Carbamate

307/20-124-1-29/69

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy

of the Academy of Sciences USSR)

PRESENTED:

August 29, 1958, by B. A. Kazanskiy, Academician

SUBMITTED:

August 26, 1958

Card 3/3

CIA-RDP86-00513R000722420013-0" APPROVED FOR RELEASE: 03/13/2001

International aymposium on sacromolecular chemistry, Yoscow, 1960.	, 14-18 tonal Sympos- 0; Papers and 5,500 copies	Sponsoring Agency: The International Union of Pure and Applied Chemistry, Commission on Macromolecular Chemistry Tech. Ed.s. T. V. Fölynkova.	FURPUSE: This collection of articles is intended for chemists and researchers interested in sacromolecular chemistry.	COVERAGE: This is Section I of a multivolume work containing scientific papers on marromolecular chemistry in Moscow. The material includes data on the synthesia and properties of polymers, and on the processes of polymerization,	oppolymentization, polycondensation, and polyrecombination. Zach text is presented in full or sumerised in Franch, English, and Russian. There are 47 papers, 25 of which were presented by Soriet, Rumanian, Bungarlan, and Casadoslorakian scientists. Et personalities are santioned, References accompany individual articles.	Forcettin, K. 1., Th. I. Emergin D. T. Kagamic, M. I. Praincours, and R. B. Scalors (GCM): "Priverdensition of the creatine Acids Leters in the Freezes of Carbon Dioxids.			A S	Polymethenes Folymethenes Leesel, P., and R. Chromesel (Communication of	Condensation in Suppositon Collaboration 1. Tempositon of Telebritzeron and Train 1. A. Temposit (USSS). Copolymers	A Edinary (Sectionalists with Ciber Vinyl Corpounds of N. Edinary (Sectionalists). Chain Francis Resctions in Alberta	Maperaton Aqueous	Essier, I., V. Matreks, and Is. Polacek (Gasthoslovakia), Thermal 103:/	AVAILABLE: Library of Congress Cart 9/9 Page E	SOUTH W. M.	Follownshiesta, H. T. (USSR). Cooperative Fromeses in the Polycondanes.	6/1	The second secon
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POROSHIN, K.T.; KHURGIN, Yu.I.; PROKHOROVA, N.I.

Hydrolysis of P-nitrophenyl acetate in the presence of N-carbobensoxy-asparagylserylglycine. Izv. AN SSSR Otd. khim. nauk no.10:1901-1902 0 160. (MIRA 13:10)

l. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk $SSSR_{\bullet}$

(Glycine) (Acetic acid)

POROSHIN, K.T.; KHURGIN, Yu.I.; DMITRIYEVA, M.G.; KOZARENKO, T.D.

Kinetics and mechanism of the polycondensation of amino acid esters and peptides. Report No.12: Polycondensation of ethyl glycylglycinate. Izv. Ali SSSR.Otd. khim. nauk no.12:2215-2220 D '60. (MIRA 13:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. (Glycine) (Condensation products)

\$/020/60/132/03/37/066 B011/B008

AUTHORS:

Poroshin, K. T., Academician AS TadzhSSR, Khurgin, Yu. I.,

Dmitriyeva, M. G.

TITLE:

Hydrolysis of the p-Nitro-phenyl Esters of Glycine,

Glycylglycine, Diglycylglycine and Their Carbobenzoxy

Derivatives

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 3,

pp. 623-625

TEXT: The paper of the authors deals with the resistivity of the substances mentioned in the title against the basic hydrolysis in the aqueous medium. As is well known, the activation of the carboxyl group is one of the most important phases of the protein biosynthesis (and the peptide synthesis). This activation takes its course in the aqueous medium under much milder conditions. At the biosynthesis, the carboxyl group is activated by means of the decomposition of aminoazyl adenylates. The latter are related to the activated esters of the

Card 1/4

Hydrolysis of the p-Nitro-phenyl Esters of Glycine, Glycylglycine, Diglycylglycine and Their Carbobenzoxy Derivatives

S/020/60/132/03/37/066 B011/B008

α-amino acids and similar with regard to their chemical properties. The reactions of these esters can therefore be used for the simulation of biosynthetic processes, under conditions which are similar to the physiological ones. Since the p-nitro-phenyl esters are only slightly soluble in water, the hydrolysis was studied in aqueous-alcoholic medium (50 volume %) at a constant concentration of the hydroxyl ions. This was obtained by means of buffer solutions (phosphate-buffer M/15, pH 7.20). Alcoholic solutions of the hydrobromides of the esters mentioned in the title, as well as of the carbobenzoxy-diglycine were mixed with the same volume of the buffer mentioned in such a way that the final concentration of the ester amounted to 10-4 Mol. The time slope of the hydrolysis was recorded spectrophotometrically. The rate constants of the hydrolysis of the activated esters (Table 1) were calculated from the data (Fig. 1) and used for the evaluation of the reactivity of the esters. The absorption spectrum of some esters in alcoholic solution was measured before mixing with the buffer, and the intactness of the ester was checked. Spectrophotometers of type

Card 2/4

Hydrolysis of the p-Nitro-phenyl Esters of Glycine, Glycylglycine, Diglycylglycine and Their Carbobenzoxy Derivatives

S/020/60/132/03/37/066 B011/B008

Сф-4 (SF-4) were used. The authors compare the values of the rate constants of the hydrolysis determined by them with those of other scientists. These two values are in good agreement. The data obtained by the authors also agree with the data from publications, according to which the resistivity of the (nonactivated) ester groups decreases often at the transition from carboxylic acids to the amino acids. As expected, the hydrobromide of the glycine-p-nitro-phenyl esters is most readily hydrolized of all substances investigated. In conclusion, the authors state that the influence of the amino group decreases withthe elongation of the peptide chain, whereas the resistivity of the ester group increases and approaches that of the esters of the carboxylic acids. An inverted conformity prevails in the series of the N-carbobenzoxy derivatives: the stability of the p-nitro-phenyl esters decreases through the removal of the carbobenzoxy group. The hydrolysis is considerably accelerated at the transition from glycine to the peptides. The difference in the hydrolysis rates of the peptides is relatively small. There are 1 figure, 1 table, and 13 non-Soviet references.

Card 3/4

Hydrolysis of the p-Nitro-phenyl Esters of Glycine, Glycylglycine, Diglycylglycine and Their Carbobenzoxy Derivatives

S/020/60/132/03/37/066 B011/B008

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo

Akademii nauk SSSR (Institute of Organic Chemistry imeni

N. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: January 19, 1960

Card 4/4

STEPANOVA, N.B.; KHURGIN, Yu.I.; POROSHIN, K.T.

Polycondensation of ethyl glycinate in the presence of ethyl alcohol. Izv. AN SSSR. Otd. khim. nauk no. 1:160-162 Ja '61. (MIRA 14:2)

1. Institut organichaskoy 'mimii im.N.D. Zelinskogo AN SSSR. (Clycine)

KHURGIN, Yu.I.; DMITRIYEVA, M.G.

Relative reaction rates of peptide synthesis (aminolysis of n-nitrophenyl esters). Dokl. AN SSSR 143 no.3:629-632 Mr '62.

(MIRA 15:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. Predstavleno akademikom B.A.Kazanskim.
(Peptides)(Chemical reaction, Rate of)

DMITRIYEVA, M.G., KHURGIN, Yu.I.

Kinetics of the reaction of aminolysis of p-nitrophenyl esters of acylated <-amino acids in dioxane. Izv. AN SSSR. Ser. khim. no.7: 1174-1180 '65. (MIRA 18:7)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

KhurginA, R.A.

USSR/Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4809

Author

Khurgina, R.A.

Title

: Method for Determination of Fractional Composition of

Titanium Dioxide.

Orig Pub

: Iskusstvennoye volokno. Sb. 8. M., Gizlegprom, 1955, 44-

53

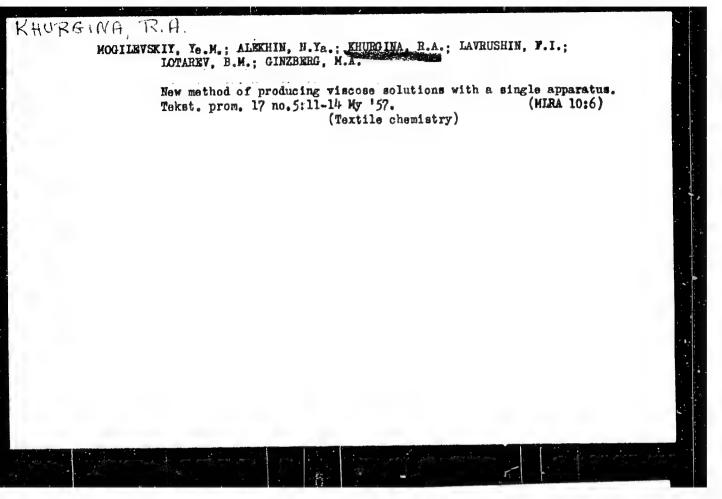
Abstract

: To determine the fractional composition of TiO2 it is recommended to utilize the pipette-method of sedimentation analysis. To carry out the analysis a suspension of TiO2 in water is prepared using a triethanol amine - oleic soap mixture as the stabilizer. Dimensions of particles are determined on the basis of sedimentation time, which is calculated according to Stokes formula on the basis of a given diameter of the parti-

cles.

Card 1/1

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"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722420013-0

KHURGINA, R.A.; PAKSHVER, A.B.

Separation determination of sodium sulfide and sodium trithiocarbonate in viscose solutions. Report No.2. Khim. volok. no.2:51-53 '59. (MIRA 12:9)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Viscose---Analysis)

Rapid method for determining sulfide sulfur in by-products from viscose solutions. Khim.volok. no.3:35-36 '59. (MIRA 12:11)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut iskusstvennogo volokna: (VNIIV). (Viscose) (Sulfur-Analysis)

KHURGINA, R.A.; PAKSHVER, A.B.

Mothods for determining the amount of free sodium hydroxide

Methods for determining the amount of free sodium hydroxide and soda in viscose solutions. Khim.volok. no.3:37-39 159.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (VNIIV).
(Viscose) (Sodium hydroxide) (Sodium carbonate)

15(4), 5(2)

S/183/59/000/06/010/027 B004/B007

Pakshver, A. B Khurgina, R. A.,

TITLE:

AUTHORS:

A Complete Analysis of the Components of Viscose

PERIODICAL:

Khimicheskiy volokna, 1959, Nr 6, pp 34-37 (USSR)

ABSTRACT:

The authors mention the well-known methods of analyzing viscose (Refs 1-14) and its disadvantages (e.g. too complicated in practice, lack of accuracy). They checked several methods of determining sulfur- and sodium compounds and the γ-number. As a result of their investigations, the authors recommend the following method, in which determination of the individual components is carried out in separate samples. Production of two solutions: 1) Viscose solution. 2) Solution of by-products, obtained by salting out the xanthate with NaCl. The total content of sulfur is iodometrically determined in viscose and by-products after reduction by means of sodium zincate (Ref 15) to Na,S. Na and S, bound in the xanthate, are determined according to the polymer method (Ref 17). The separate determination of Na S and sodium trithiocarbonate is carried out by means of gas analysis of the solution of the

Card 1/2

A Complete Analysis of the Components of Viscose 5/183/59/000/06/010/027 B004/B0C7

by-products (Refs 2, 6) or by means of the titration with K_3 Fe(CN)6 worked out by the authors. For the purpose of determining hyposulfite and polysulfide sulfur the well-known method of reference 22 is used. For determining free NaOH and soda the authors developed a new method in an earlier paper (Ref 23). The results obtained by such analyses of viscose are given in a table. There are 1 table and 23 references, 13 of which are Soviet.

ASSOCIATION: VNIIV- Vsesoyuznyy nauchno-issledovatel'skiy institut

iskusstvennogo volokna (All-Union Scientific Research Institute for Synthetic Fibers)

Card 2/2

s/183/60/000/02/20/025 B004/B005

AUTHORS:

Mogilevskiy, Ye. M., Ginzberg, M. A., Khurgina, R. A.

TITLE:

Temperature Conditions for the Xanthogenization of Alkali Cellulos.

PERIODICAL:

Khimicheskiye volokna, 1960, No. 2, pp. 60 - 63

TEXT: The authors report on the determination of the esterification degree of cellulose xanthogenate in dependence on the duration of xanthogenization and on temperature (0-40°). The experiments were carried out in a VA apparatus on refined sulfite cellulose (containing 91.6% of α-cellulose). The soda lye concentration was 200 g/l. Carbon disulfide was added at a rate of 40% of the α-cellulose content. The experimental data are presented as follows: Fig. 1, dependence of γ on the duration of xanthogenization (10 min to 10 h) at 20, 25, and 30°; Table 1, or the duration of xanthogenization (10 min to 10 h) at 20, 25, and 30°; Table 1, or the process; Fig. 2, dependence of γ on the duration of xanthogenization at temperatures between 0 and 40°; Table 2, amount of CS2 used for the formation of xecondary products; Table 3, data of the fibers produced. The authors arrived a secondary products; Table 3, data of the fibers produced. The authors arrived the following results: During the process of xanthogenization, the curves for γ pass a maximum which is explained by the simultaneous esterification of alkali

Card 1/2

Temperature Conditions for the Manthoganilation of Alkali Caliblose

8/183/60/000/02/20/025 **B004/B005**

cellulose and the decomposition of the xanthogenate. An increase in temperature accelerates both the formation of xanthogenate and that of secondary products. The temperature factor of cellulose xanthogenization is about 2. Between 20 and 30°, there is no strict dependence between gamma number and temperature in spite of accelerated xanthogenization. It is only observed that gamma falls from 55 (at 20°) to 50 (at 30°). In this temperature range, no differences in the distribution of CS2 were observed. In the wide range between 0 and 40°, the dependence of gamma on temperature is more distinct (70 at 10°, 48 at 40°). Accordingly, the CS2 distribution also changes. If the xanthogenization in the VA apparatus is carried out in such a way that at the beginning of reaction a high temperature prevails which decreases during the reaction, the duration of viscose production can be considerably reduced. There are 2 figures, 3 tables, and 13 references, 8 of which are Soviet.

ASSOCIATION: VNIIV (All-Union Scientific Research Institute of Synthetic Fibers)

Card 2/2

KHURGINA, R. A., Cand. Tech. Sci. (diss) "Investigation of Process of Seasoning of Viscose, "Moscow, 1961, 14 pp. (Moscow Textile Inst.) 150 copies (KL Supp 12-61, 276).

KHUFGINA, R.A.; PAKSHVER, A.B.

Kinetics of decomposition of cellulose xanthate and of formation of sodium trithiocarbonate in viscose. Khim. volok. no.2:25-30 (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.
(Gellulose xanthates) (Sodium thiocarbonate) (Viscose)

KHURGINA, R.A.; PAKSHVER, A.B.

Kinetics of viscose ripening process. Khim.volok no.4:34-37
(MIRA 15:8)

162.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvonnogo
volokna (for Khurgina). 2. Vsesoyuznyy nauchno-issledovatel'skiy
institut steklyanogo volokna (for Pakshver).

(Viscose)

MOGILEVSKIY, Ye.M.; GINZBERG, M.A.; KHURGINA, R.A.

Degradation of alkali cellulose by means of oxidizers and catalysts. Khim. volok. no.1:54-57 '65. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna.

KHURGINA, Ya. S.

"The Role and Importance of Prophylactic Orthodontia in Healing Oral Infection in Children," <u>Stomatologiya</u>, No. 2, 1949.

Cand Med Sci

KHURGINA, YA. S.

Dissertation: "Clinical Observations of the Tooth-Jaw Deformations in Children and Methods for their treatment." 26/6/50

Moscow Medical Stomatological Inst.

Sum 71

KHURGINA, Yn. S.

"Clinical Observations of Tooth and Jaw Deformations in Children and Yethods for their Treatment." Thesis for degree of Cand. Medical Sci. Sub 26 Jun 50, Moscow Medical Atomatological Inst.

Summary 71, 4 Sep 52, Dissertations Fresented for Degrees in Science and engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

KHURGINA, Ya. S.

"Clinical Manifestations of Tooth and Jaw Deformities in Children and Methods of Treating Them." Sub 25 Jun 51, Moscow Medical Stomathological Inst, Ministry of Public Health RSFSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

KHURGINA, Ya.S., kandidat meditsinskikh nauk

Age factors in selection of orthodontic intervention. Stomatologiia no.5:43-45 S=0 154. (MLRA 7:11)

1. Iz otdela protesnoy stomatologii Tsentral'nogo instituta travmatologii i ortopedii (dir. chlen-korrespondent AMN SSSR prof. N.N.
Priorov) Ministeratva zdravookhraneniya SSSR.
(MALOCGLUSION.
prev. & ther., indic.)

MHURGINA, Ya. S.

BOVDZEY, N.

On the article by Ia.S. Khurgina on "Age factors in evaluating a choice of athopedic therapy. Stomatologiia no.3:50-51 My-Je '55. (MLRA 8:9)

1 Iz poliklinicheskogo otdeleniya 6-y gorodskoy detskoy bol'nitsy Kiyevskogo rayona Moskvy.

(JAWS--ABMORMITIES AND DEFORMITIES)

Events Teach and the state of t

KHURGINA, Ya.S., kandidat meditsinskikh nauk.

On the discussion about the time for orthodontic operations in deformations of the teeth and jaws. Stomatologiia 35. no.4:49-51 J1-Ag 156. (MLRA 10:4)

1. Iz sektora proteznoy stomatologii (zav.I.I.Revzin) TSentralinogo instituta travmatologii i ortopedii Ministerstva zdravookhraneniya SSSR (dir.-chlen-korrespondent AMN SSSR prof. N.N. Friorov)

(TEETH-ABDNORMITIES AND DEFORMITIES)
(JAWS-ABNORITIES AND DEFORMITIES)

Methods for testing d.c. motors. Standartizatsiia 26 no.7:27-30
Jl '62. (MRA 15:7)
(Electric motors, Direct current--Testing)

GARBER, I.; KHURGINA, Z.

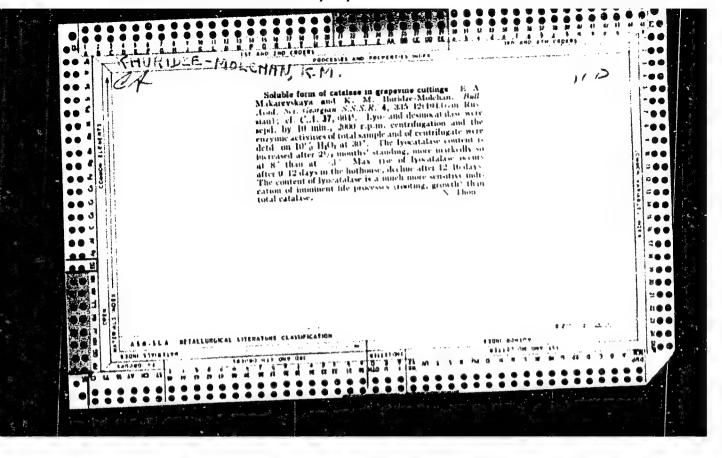
How a bank department executes control over wage fund. Den.
1 kred. 17 no.10:49-53 0 '59. (MIRA 12:12)
(Moscow-Banks and banking) (Wages-Accounting)

GALINON, L.S., kand. ekon. nauk; IOFFE-GONCHARUK, N.A.; KOTSAREVA, T.G.; SOZINOVA, O.A.; STEKLOVA, A.N.; KHURGINA, Z.A.; KOTKOV, M.I., otv. red.; NADEZHDINA, A., red. izd-va; TELEGINA, T., tekhn. red.

[Control over wage fund disbursement] Kontrol za raskhodovaniem fondov zarabotnoi platy. Moskva, Gosfinizdat, 1962. 117 p. (MIRA 15:7)

1. Gosudarstvennyy bank Moskvy (for Ioffe-Goncharuk, Kotsareva, Sozinova, Steklova, Khurgina). 2. Nachal'nik Otdela kontrolya za zarabotnoy platoy Pravleniya Gosudarstvennogo banka SSSR (for Kotkov).

(Moscow-Banks and banking) (Moscow-Wages)



GEL'MANOV, K.; KHURIN, Mikhail (g.Lipetsk); VOROTNIKOV, A.

Good luck!. Tekh.mol. 28 no.6:1-3 '60. (MIRA 13:7)

1. Glavnyy inshener Yeletskogo elementnogo zavoda (for Gel'manov). 2. Pervyy sekretar' Lipetskogo obkoma komsomola (for Vorotnikov).

(Efficiency, Industrial)

SOV/68-58-11-9/25

AUTHORS: Boldyrev I.K., Gutman L.M. and Khurin S.M.

TITLE: Experience in Replacing Gas-Air Valves and Increasing

the Travel of the Reversing Equipment (Opyt zameny

gazovozdushnykh klapanov i udlineniya khoda kantovki)

PERIODICAL: Koks i Khimiya, 1958, Nr 11, pp 24-26 (USSR)

ABSTRACT: The method adopted for exchanging gas and air valves of

an old design for new ones of a standard design and increasing the pitch of reversing equipment is described

and illustrated. There are 4 figures.

ASSOCIATION: Stalinskiy Koksokhimicheskiy zavod (Stalino Coke By-Product Plant)

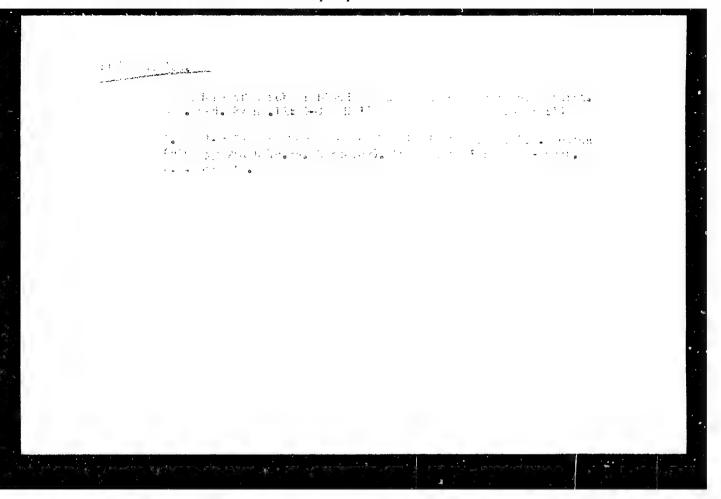
Card 1/1

KHURIN, Yefim Semenovich; GENIN, M.Ya., nauchnyy rod.; TYUTYUNIK,
M.S., red.; PERSON, M.N., tekhn. red.

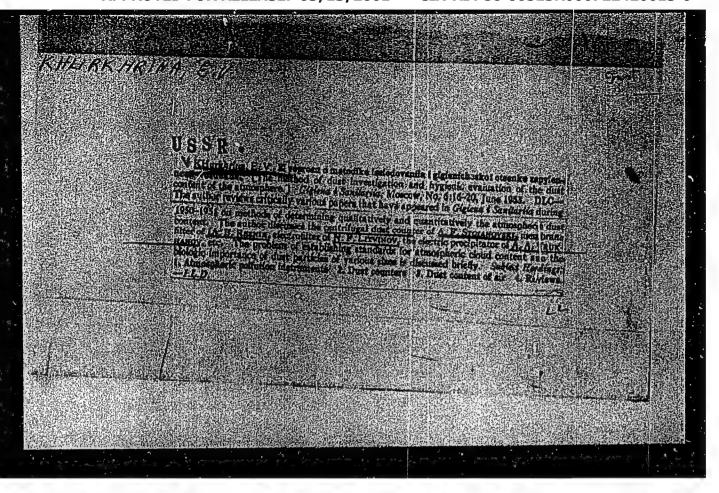
[Mamual for young sanitary engineers] Spravochnik molodogo santekhnika. Moskva, Vaes. uchebno-pedagog. izd-vo Proftekhizdat, 1961. 382 p.

(Sanitary engineering)

(Sanitary engineering)



"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000722420013-0



NADAREYSHVILI, V.K.; KHUHODZE, K.V.; RUKHADZE, G.L.; GUDIASHVILI, R.N.

Method of prospecting for sulfide deposits based on secondary dispersion halos as revealed by the study in southern Georgia. Geol. sbor. [Kavk.] no.2:155-166 '62. (MIRA 17:1)

KHURODZE, L.V.

Problem of the visibility of roentgen rays. Probl. fiziol.opt. 11:229-235 '55, (MLRA 9:6)

1. Respublikanskaya klinicheskaya bol'nitsa glaznykh zabolevaniy Ministerstva zdravockhraneniya Gruzinskoy SSR i Glaznaya klinika Tbilisskogo gosudarstvennogo meditsinskogo instituta.

(ROENTGEN RAYS,
visibility (Rus))
(VISIGN,
visibility of x-rays (Rus))

KH	The preliminary program of the Electroretings play (EC) Conference to be held at Lukacovice, sear Brue, on 24 - 26 September 1959 with invernational participation is as follows: 2. From Br. 6. 0. DEFNICENCY (ACALLAND): Mechanics of EC Matternation (Serving, USSS): Mechanics	3. Br. V. Ofth (Minster, Mercen Germany): Yorns and Conditions of the Leads of Litraretinal Princitals. b. Br. L. V. Barctis (Thilst, USS): Bait becaused Pailts in freenst United Latroretingsupy and the May to their Elizination. 2. Br. M. Semmariday (Mescov, USS): Control Regulation of Electro-vertingsuphy. b. Br. J. M. Andres (Taverna, USS): On the Problem of Electro-	11. E. R. A. Allahverdys (Terves, USS): Purticual Haits of the Bester in R. R. A. Allahverdys (Terves, USS): Chaps of the EO Marker in Ma. R. R. R. Mailtenays (Terves, USS): Chaps of the EO Marker in Ma. R. R. Rains (Beteader, Bethariands): EO is Chances. 3. Er. R. R. Mannersky (Besov, USS): Energy in Charlestria. 4. Er. R. Mannersky (Besov, USS): Energy in Charlestria. 6. For E. G. Q. Denirshooten, but in the Charlestria and (Terves, USS): Energy and (Terves, USS): Energy and (Terves, USS): Energy and (Terves, USS): Energy and (Terves, USS): Eo in the Section of the Section Charlestrian Charl	2. Dr. F. O. Malann. (initagraf, USD): Alequatometry of the fight dealy-mad in Man. 7. Br. M. Arahan (Vererna, USS): Atroits Herri Optici in 1840.	

MELIKADZE, I.G.; LARIN, R.R.; BEZHANOV, F. Kh.; Prinimali uchastiye:

KHUROSHVILI, G., inzh.; TSAGARELI, T., inzh.; ZAMTARADZE, E., inzh.;

EOCHORISHVILI, G., tekhnik; MAYSURADZE, L., laborant; SHUBLADZE, G.,
laborant; PANKRATOVA, Ye., kammorez.

Investigation of teschenite disintegration by the thermal method. Soob. AN Gruz. SSR 34 no.3:633-640 Je '64 (MIRA 18:1)

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М.

Abs Jour

: Ref Zhar - Biol., No 10, 1958, 44353

Author

; Khuroshvili, K.G.

Inst

: All-Union Scientific Research Institute for Tea and Sub-

propical Cultures.

Title

: The Culture if Isolated Embryos and Tissues as a Method

of Selecting Citrus Plants.

Orig Pub

: Byul Vses. n.-i. in-ta chaya i subtrop. kul'tur, 1957,

No 1, 178-195, 180-197.

Abstract

: This article describes the technique, studied at the All-Union Institute of Tea and Subtropical Cultures, of (rowing the embryos of citure plants in artiricial media for the purpose of developing the methods of breeding the citrus varieties with a view of raising their frost and malsecco resistance. The best nutrient solution for

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KHUROSHVILI, K.G., aspirant

Culture of isolated embryos and tissues as a method for citrus breeding. Biul. VNIICHISK no.1:180-197 '57. (MIRA 15:5)

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NESTERENKO, A.D.; TSUKERNIK, L.V.; KHURSHCHOVA, Ye.V.; ROZHANSKIY, L.L.; NAYASHKOVA, Ye.F.; RASHKOVSKIY, Yu.A.

A.L. Matveev. Elektrichestvo no.7:94 J1 '56.

(MLRA 9:10)

(Matveev, Arkadii L'vovich, d. 1956)

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PHASE I SECT ENGLISHED SOUL 1 OF	NASR. Institut mashinovedeniya	tom 1: Vtormym nauchno-teichnicheskmym konferentsiym stattov i miadailkin nauchnydh seireinikkov (Transactions of Institute of Marhine Science, Academy of Sciences, USSR, 1: Second Scientific and Technical Conference of Aspirants Junior Scientific Workers) Moscow, 1959. 182 p. Errata insarred. 1,000 copies printed.	Ed.: A.K. D'yachkov, Doctor of Technical Sciences, Professor; th. Ed.: B.K. Shorin.	POXE: This book is intended for technical personnel engaged in the design of machines and mechanisms.	COVERAGE: This collection of scientific papers, presented at a sonference hald July 2-3, 19596.tests with the theory of machines and mechanisms, strength of machine parts, friction and west in machines, and machines building technology. Firstless the framesanches will. The overteal Bails for Deferrating Assumance of The Court of	Investigation of Resonance Properties of Mechanical 75 scoretical and experimental investigations of the wastion through resonance in mechanical vibrating presenced. The Fealits of an investigation of a certificial vibrator with non-linear	reloration is discussed the discussion through Resonance of Firstion is discussed to the Transition through Resonance of Firstion of Anata with Different Moments of Finosipal Instita, with the Comping to an Engine Taken into Account Wheretones of Anatas with different principal-instita moments during Fransition through the zone of static instability are investigated. Equations of acction and sethods for their sold-tion to present their sold-	Osipov, E.A. Investigating the Process of Producing Splines on Shaffs by Breaching or Planing With Gang Tools Basic Embods Basic Englands on the aslection of mathods for cutting splines in shafts are developed. Broathing and planing are experimentally investigated and recommended as the most efficient methods for cutting splined data for an endine action of the commental of the most efficient methods for cutting splined shaffs in large-lot methods.	and L.Te. Investigation of Nothods of Compasting Casting 121 das effect of wibrations on the process of compacting moids by compression is investigated. Results indicate that wibrations and a to sail to each the micromity of density at expression presentes several times lower than those used in compacting without wibration.	Min. E.B. Investigation of Contact Areas of Rough Surfaces 131 The relationship between the actual contact area (contasting no felastic and plastic contact areas), the surface roughness and the attent properties of two surfaces in, contact is investigated. Results indicate that the size of the actual contact area is considerably affected by the geometry of the surface.	meshohin, N.D. Investigation of the Accuracy of Determining May by The Matheway of Indentations are the Accuracy of According metal investigation was made of the accuracy of determining metal wear by the indentation method, involving measurement of the langth and calculation of the Freduction of depth of a system-taked recess out into the metal surface.	Mathorship: A.T. Investigation of Labricant Circulation in a facility of the dil math of a Vertical-pivot Thrust Bearing Osed in Large The dil math of a Vertical-pivot Thrust Bearing Osed in Large Thorships and Detreon abose of a thrust bearing (without cooling) was investigated by a thermonance and the Approximation of Approximation of the Approximation of the Approximation of	Durehador, O.D. Investigation of Stresses in France Mith Flate—167 The author discusses an experimental and theoretical invosti- gation of stresses in composite and solid france structure. The non-linear distributions of stresses and strains are shown in discre-
31.	AKademiya nauk ASSR.	Trudy, tom 1: VTc amplication 1 in the Institute (Resp. Ed.: A.K. Tech. Ed.: B	FULFOSE: This b	COVERAGE: This conference he and mechanism in machines. Example General Services of Table Gener	Epreblev, 5.5. I Sylcan of the process of tra systems are pr resonance prop	Nestoring for the following the could be could b	Osipov, E.A. Inv	Kolarde I. Te. D Molda Compression is compression is pression ever exthour ethrat	Descin, E.A. Inv The relational of elastic and and the askert investigated. contact area is surface.	Evaborin, R.D. - Mary Tor Bello An experiment determing as meanweath of depth of a ere The method of	Mario generalista Media of the bill in Large Mythenli in Large Mythenli in Large Mythenli in Mythenli bearing (it to an anonetic as deniya, an Salessa, and are deserted.	Ehurshadov (d. Eh. The author 11s Attor of street From con-line at shown in discre
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